

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

APPLICATION NO.

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

(USE SEVERAL SHEETS IF NECESSARY)

MASIMO.7CP1C5

Unknown

APPLICANT

M. Diab et al.

FILING DATE

Herewith

GROUP

Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>h</i>	4 8 0 0 4 9 5	1/24/89	Smith			
<i>h</i>	4 8 2 4 2 4 2	4/25/89	Frick et al.			
<i>h</i>	4 8 6 3 2 6 5	9/5/89	Flower et al.			
<i>h</i>	4 8 6 7 5 7 1	9/19/89	Frick et al.			
<i>h</i>	4 8 9 2 1 0 1	1/9/90	Cheung et al.			
<i>h</i>	4 9 0 7 5 9 4	3/13/90	Muz			
<i>h</i>	4 9 1 1 1 6 7	3/27/90	Corenman et al.			
<i>h</i>	4 9 2 8 6 9 2	5/29/90	Goodman et al.			
<i>h</i>	4 9 5 5 3 7 9	9/11/90	Hall			
<i>h</i>	5 0 5 7 6 9 5	10/15/91	Hirao et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

<i>h</i>	1.	Rabiner, Lawrence et al. <u>Theory and Application of Digital Signal Processing</u> , p. 260, 1975.
<i>h</i>	2.	Tremper, Kevin et al., <u>Advances in Oxygen Monitoring</u> , pp. 137-153, 1987.
<i>h</i>	3.	Harris, Fred et al., "Digital Signal Processing with Efficient Polyphase Recursive All-Pass Filters", Presented at International Conference on Signal Processing, Florence, Italy, Sept. 4-6, 1991, 6 pages.
<i>h</i>	4.	Haykin, Simon, <u>Adaptive Filter Theory</u> , Prentice Hall, Englewood Cliffs, NJ, 1991.
<i>h</i>	5.	Widrow, Bernard, <u>Adaptive Signal Processing</u> , Prentice Hall, Englewood Cliffs, NJ 1985.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
E	5 2 7 3 0 3 6	12/28/93	Kronberg et al.			
	3 6 4 7 2 9 9	3/7/72	Lavallee			
	3 7 0 4 7 0 6	12/5/72	Herczfeld et al.			
	4 0 6 3 5 5 1	12/20/77	Sweeney			
	4 0 8 6 9 1 5	5/2/78	Kofsky et al.			
	4 0 9 5 1 1 7	6/13/78	Nagy			
	4 4 0 7 2 9 0	10/4/83	Wilber			
	4 5 3 7 2 0 0	8/27/85	Widrow			
	4 6 4 9 5 0 5	3/10/87	Zinser, Jr. et al.			
E	4 7 7 3 4 2 2	9/27/88	Isaacson et al.			

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						YES	NO

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

E	6.	Brown, David P., "Evaluation of Pulse Oximeters using Theoretical Models and Experimental Studies", Master's thesis, University of Washington, 11/25/87, pp. 1-142.
E	7.	Cohen, Arnon, "Volume I" Time and Frequency Domains Analysis", Biomedical Signal Processing, CRC Press, Inc., Boca Raton, Florida, pp. 152-159.
E	8.	Severinghaus, J.W., "Pulse Oximetry Uses and Limitations", pp. 1-4, ASA Convention, New Orleans, 1989.
E	9.	Mook, G.A., et al., "Spectrophotometric determination of Oxygen saturation of blood independent of the presence of indocyanine green", Cardiovascular Research, Vol. 13, pp. 233-237, 1979.

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E -

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5/31/03

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 7 9 9 4 9 3	1/24/89	DuFault			
	4 8 4 8 9 0 1	7/18/89	Hood, Jr.			
	4 8 6 0 7 5 9	8/29/89	Kahn et al.			
	4 8 6 9 2 5 3	9/26/89	Craig, Jr. et al.			
	4 8 6 9 2 5 4	9/26/89	Stone et al.			
	4 8 8 3 3 5 3	11/28/89	Hausman			
	4 9 2 7 2 6 4	5/22/90	Shiga et al.			
	4 9 4 8 2 4 8	8/14/90	Lehman			
	4 9 5 6 8 6 7	9/11/90	Zurek et al.			
	5 4 5 8 1 2 8	10/17/95	Pulanyi et al.			

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						YES	NO

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	10.	Neuman, Michael R., "Pulse Oximetry: Physical Principles, Technical Realization and Present Limitations", <u>Continuous Transcutaneous Monitoring</u> , Plenum Press, New York, 1987, pp. 135-144.
	11.	Mook, G.A., et al., "Wavelength dependency of the spectrophotometric determination of blood oxygen saturation", <u>Clinical Chemistry Acta</u> , Vol. 26, pp. 170-173, 1969.
	12.	Klimasauskas, Casey, "Neural Nets and Noise Filtering", <u>Dr. Dobb's Journal</u> , January 1989, pg. 32.
	13.	Melnikof, S. "Neural Networks for Signal Processing: A Case Study", <u>Dr. Dobb's Journal</u> , January 1989. pg.36-37

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Σ	4 7 2 3 2 9 4	02/02/88	Taguchi	X	X	
	4 8 1 9 7 5 2	04/11/89	Zelin			
1	4 9 6 0 1 2 6	10/02/90	Conlon et al.			
	5 2 4 6 0 0 2	09/21/93	Prosser			
Σ	5 6 6 2 1 0 5	09/02/97	Tien			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
Σ	S U 1 6 7 4 7 9 8	9/91	Abstract from Database WPI,	Derwent	Publications	
Σ	9 2 / 1 5 9 5 5	17/09/92	PCT			

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

Σ	14.	Jingzheng, Ouyang et al., "Digital Processing of High-Resolution Electrocardiograms--Detection of His-Purkinje Activity from the Body Surface", <u>Biomedizinische Technik</u> , 33, 1 October 1988, No.10, Berlin, W. Germany, pp. 224-230.
Σ	15.	Chen, Jiande, et al., "Adaptive System for Processing of Electrogastic Signals", <u>Images of the Twenty-First Century</u> , Seattle, WA, vol. 11, Nov. 9-12, 1989. pp. 698-699.
Σ	16.	Varanini, M. et al., "A Two Channel Adaptive Filtering Approach for Recognition of the QRS Morphology", <u>Proceedings of the Computers in Cardiology Meeting</u> , Venice, Sept. 23-26, 1991, Institute of Electrical and Electronics Engineers, pp. 141-144.

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